

Chronology last week

Mon Dec 27 yellow ring ready (late night)

Tue Dec 28 start set-up, discover yellow aperture problem

Wed Dec 29 further diagnostics with beams (owl)

Wed Dec 29 cut vacuum 11am, beam in yellow at ~9pm

Fri Dec 31 both beams at store, ramp tuning

Sat Jan 1 bunch intensity, #bunches (early collisions)

Sun Jan 2 continue intensity, #bunches, fight gammat4 loss

Mon Jan3 development ramp with R-2-R synchro

collisions at Phenix and Star

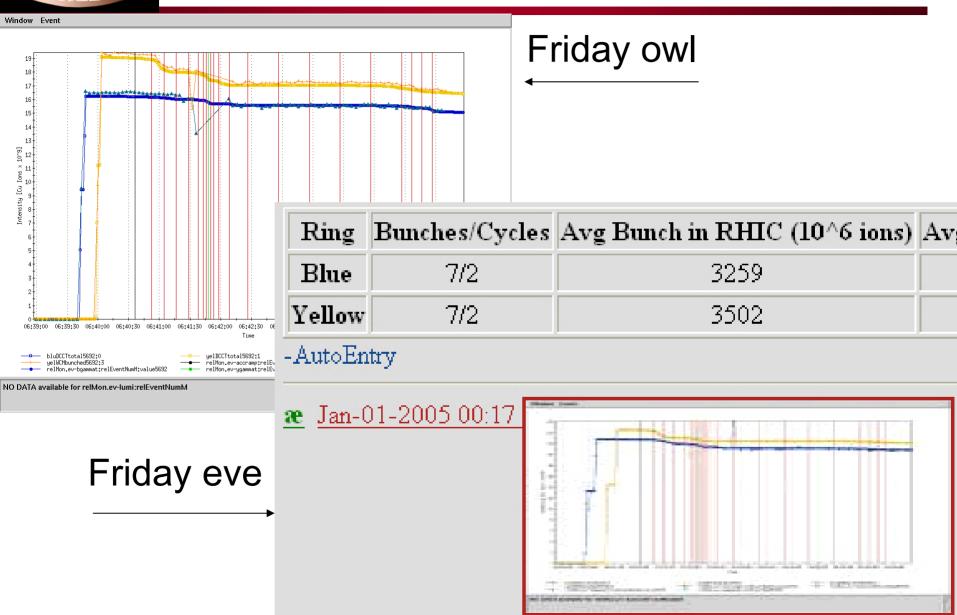
Tue Jan 4 collisions set-up (4 experiments), collimation

→ collisions overnight (28x28 ~3e9)

Wed Jan 5 experiments magnets set-up (Star, Phenix, Phobos

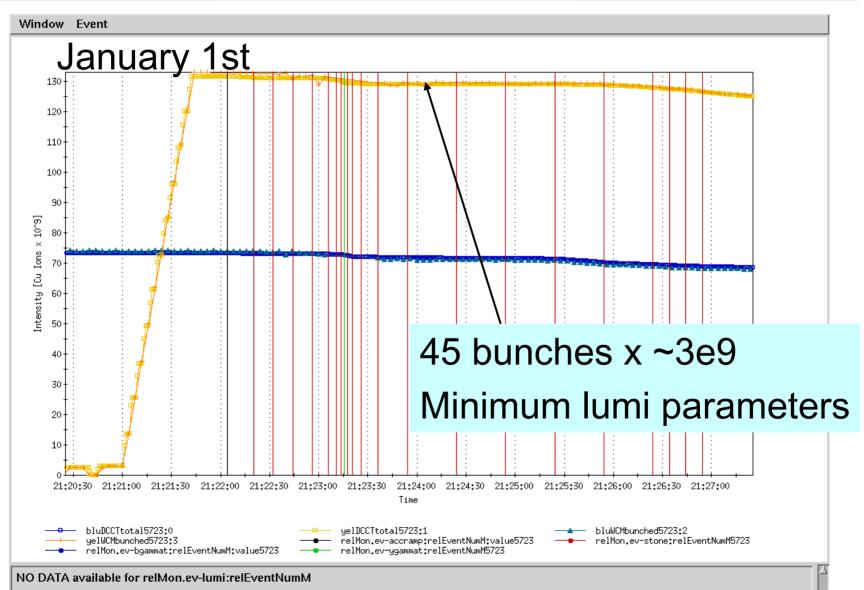


Yellow ramp development – 7bunches



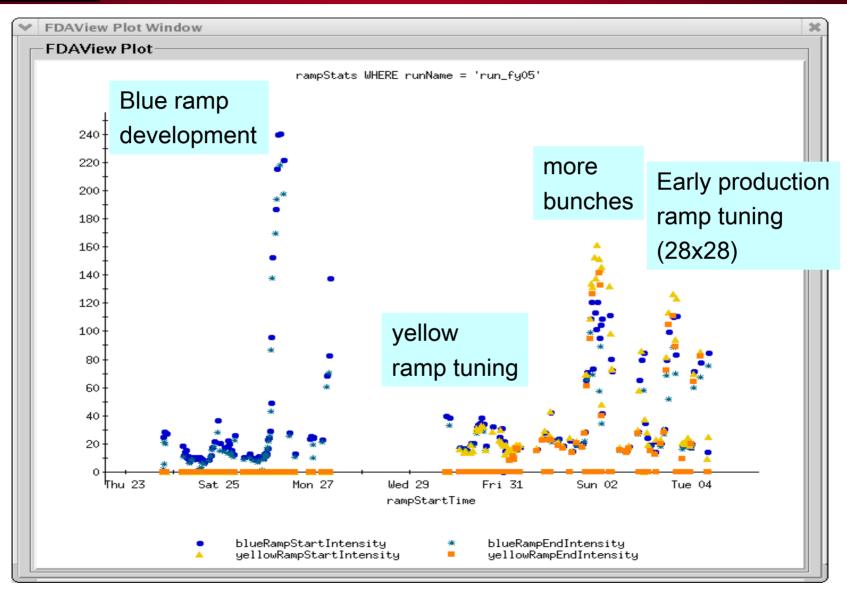


Total intensity development



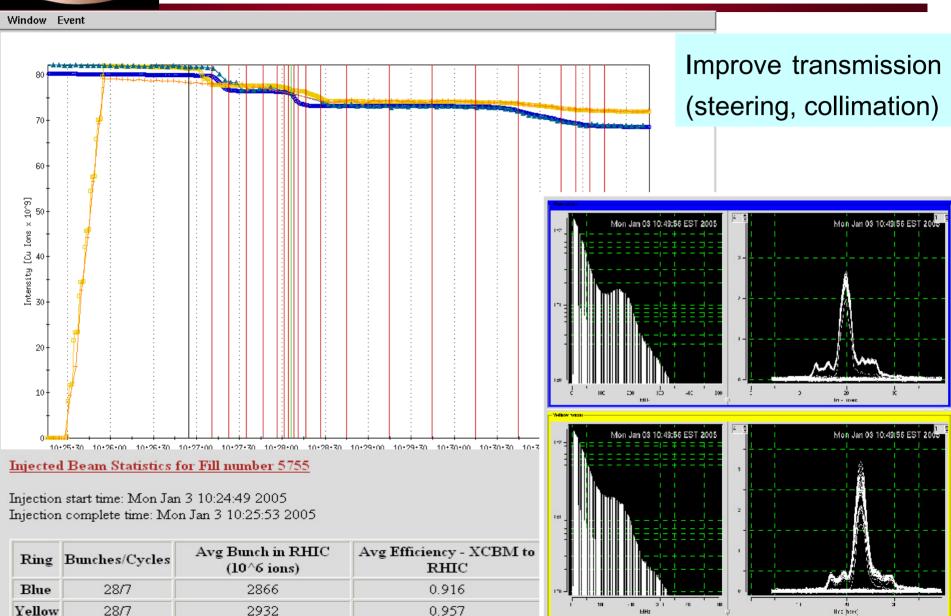


Intensity history



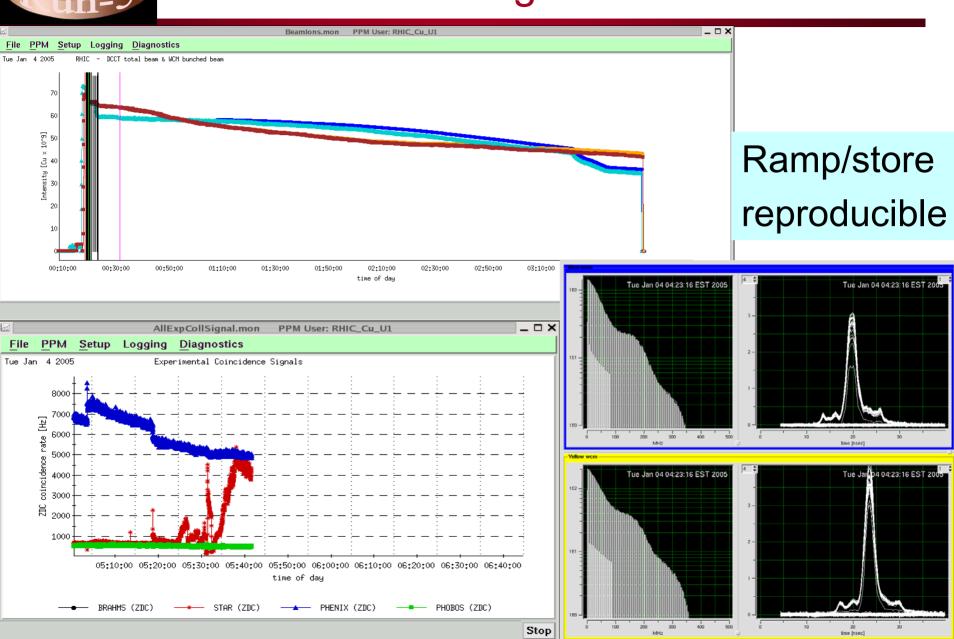


Early production ramp





Collisions last night





Luminosity increase ramp-up+development during physics

(Optics measurements, IR correction yellow, BBA of triplet BPM's,....)

28 bunches, increase **bunch intensity**→find limit Increase **number of bunches**→ limit

Expected limitations:

- □ Pressure rises, e-clouds
- □ Phobos pressure rise
- □ Beam-beam
- Single rates, background